

1FID: 00209863
VER DATE: 1999-01-12

C H E M I S T R I DATE: 10/22/02
MATERIAL SAFETY DATA SHEET TIME: 19:01:40
PAGE: 0001

SECTION 01: CHEMICAL PRODUCT & COMPANY ID

PRODUCT PRIMARY NAME: TOP ENGINE CLEANER
ALL SYNONYMS : CARBURETOR TUNE UP CONDITIONER

ENGINE CLEANER
ENG01
FORMERLY MADE BY RALPH SHRADER
G.M. ENGINE CLEANER #1
GMPD NUMBER 1050002
GMPD NUMBER 1050690
GOODWRENCH TOP ENGINE CLEANER
HM 4923
HMC-1443
H378
NC8
RS 1004
SA 384
SHRADER X-66
SHRADER X66
TOP ENGINE CLEANER
TOP ENGINE CLEANER X66
TPW1179
X66-A
X66-A (DELCO PART NO.)
X66-P
X66-P (DELCO PART NO.)
1004 SP CODE
1050002
1050690
1050690 (OBSOLETE)
1050728
1050728 (OBSOLETE)
1052278
1052433
108559 (OLD FID)
108560 (OLD FID)
108561 (OLD FID)
108562 (OLD FID)
108563 (OLD FID)
108564 (OLD FID)
108565 (OLD FID)
116243 (OLD FID)
12302498
12302500
12345088
12346535
186138 (OLD FID)
21007128
2244
2553
48220 (OLD FID)

48316
48316 (OLD FID)
58001HM56
58001SOLD AS RPD PRODUCT
68735 (OLD FID)
83C406
901319
99749 (OLD FID)

MSDS SIGNED BY NAME: ANDREW WHITLOCK

SAFE USE CATEGORY AND DESCRIPTION: 03 -SOLVENTS - FLASH POINT: > 100 F

LAST UPDATED DATE: 1999-05-27

MANUFACTURER'S ID (MID): 000539666
MANUFACTURER'S NAME: GUARDSMAN PRODUCTS INC
MANUFACTURER'S EMERGENCY PHONE NUMBER/TEXT: US 231-924-3950
MANUFACTURER'S MAILING ADDRESS:
ALSO SEE GMBA #556365
411 N. DARLING
FREMONT MI 49412
US

SECTION 02: COMPOSITION & INGREDIENT INFO

CAS#	FORMULATION	W/V	CHEMICAL NAME
000108112	R 5.0000/ 10.0000%	W	2-PENTANOL, 4-METHYL-
000111762	R 5.0000/ 15.0000%	W	ETHANOL, 2-BUTOXY-
000544605	R 5.0000/ 15.0000%	W	9-OCTADECENOIC ACID (Z)-, AMMONIUM SALT
008030306	R 40.0000/ 50.0000%	W	BENZIN
064742525	R 5.0000/ 15.0000%	W	MINERAL OIL, PETROLEUM DISTILLATES , HYDROTREATED (severe) HEAVY NAPH THENIC

THRESHOLD LIMIT VALUE: 8030-30-6 AROMATIC SOLVENT NAPHTHA: 100 PPM.
111-76-2 2-BUTOXYETHANOL: 25 PPM. 64742-52-5 MINERAL OIL: 5 MG/M3.
108-11-2 METHYL AMYL ALCOHOL: 25 PPM.

PERMISSIBLE EXPOSURE LIMIT: 8030-30-6 AROMATIC SOLVENT NAPHTHA: 100
PPM. 111-76-2 2-BUTOXYEHTANOL: 25 PPM. 64742-52-5 MINERAL OIL: 5 MG/M3.
108-11-2 METHYL AMYL ALOCHOL: 25 PPM.

SECTION 03: HAZARDS IDENTIFICATION

PRIMARY ENTRY ROUTE INDICATORS:
SKIN PRIMARY ENTRY ROUTE INDICATOR = Y
EYE PRIMARY ENTRY ROUTE INDICATOR = Y
INHALATION PRIMARY ENTRY ROUTE INDICATOR = Y
INGESTION PRIMARY ENTRY ROUTE INDICATOR = Y

EFFECTS OF OVEREXPOSURE - SKIN: MAY CAUSE SKIN IRRITATION.
EFFECTS OF OVEREXPOSURE - EYE: MAY CAUSE EYE IRRITATION.
EFFECTS OF OVEREXPOSURE - INHALATION: INHALATION MAY CAUSE HEADACHE,

DIZZINESS, NAUSEA, RESPIRATORY TRACT IRRITATION.

SECTION 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES - SKIN: REMOVE CONTAMINATED CLOTHING AND SHOES. WASH WITH MILD SOAP, APPLY SKIN CREAM FOR IRRITATION. CONTACT PHYSICIAN IF IRRITATION PERSISTS.

EMERGENCY FIRST AID PROCEDURES - EYES: FLUSH WITH RUNNING WATER FOR 15 MINUTES, HOLDING LID OPEN TO EXPOSE EYE SURFACE. CONTACT PHYSICIAN.

EMERGENCY FIRST AID PROCEDURES - INHALATION: REMOVE TO FRESH AIR AT ONCE. APPLY ARTIFICIAL RESPIRATION IF NECESSARY. CONTACT PHYSICIAN IMMEDIATELY.

EMERGENCY FIRST AID PROCEDURES - INGESTION: CONTACT PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

SECTION 05: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL, CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES: USE SELF CONTAINED BREATHING APPARATUS. WATER IS NOT SUITABLE AS AN EXTINGUISHING MEDIA, BUT MAY BE USED TO COOL NEARBY CONTAINERS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: PRESSURE MAY DEVELOP IN CLOSED CONTAINERS IF OVERHEATED.

HMIS CODES:

HMIS REACTIVITY CODE = 0

HMIS HEALTH CODE = 2

HMIS FLAMMABILITY CODE = 2

NFPA CODES:

NFPA FLAMMABILITY CODE = 2

NFPA HEALTH CODE = 2

NFPA REACTIVITY CODE = 0

AUTO-IGNITION TEXT: NOT DETERMINED.

FLASH POINT TEMPS: = 135.00F

FLASH POINT METHOD: TCC

FLASH POINT METHOD TEXT: TAGLIABUE CLOSED CUP.

SECTION 5 - OTHER INFORMATION: FLAMMABLE LIMITS; LEL: NOT DETERMINED.

UEL: NOT DETERMINED.

SECTION 06: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: REMOVE IGNITION SOURCES. DIKE AND TAKE UP WITH ABSORBENT MATERIAL. ENSURE ADEQUATE VENTILATION.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT USE OR STORE NEAR OPEN FLAME OR STRONG

OXIDIZERS. AVOID BREATHING VAPORS OR MISTS; PROLONGED OR REPEATED SKIN CONTACT.

SECTION 08: EXPOSURE CONTROLS - PROTECTION

EYE PROTECTION: FACE SHIELD OR SAFETY GLASSES RECOMMENDED.

RESPIRATORY PROTECTION: NONE REQUIRED IN NORMAL USE.

VENTILATION: ADEQUATE TO MAINTAIN LEVEL BELOW ESTABLISHED STANDARDS.

WORKPLACE/HYGIENIC PRACTICES: BASIC GOOD HOUSEKEEPING. WASH HANDS BEFORE EATING OR SMOKING. SMOKE ONLY IN DESIGNATED AREAS.

PROTECTIVE GLOVES (SPECIFY TYPE): CHEMICAL RESISTANT.

SECTION 09: PHYSICAL & CHEMICAL PROPERTIES

BOILING POINT TEMPS: = 212.00F
BOILING POINT TEXT: INITIAL BOILING POINT.

SPECIFIC GRAVITY VALUES: = 0.9200
SPECIFIC GRAVITY TEXT: TYPICAL.

VAPOR DENSITY VALUES: > 1.0000
VAPOR PRESSURE TEXT: NOT DETERMINED.

PERCENT VOLATILE BY VOLUME TEXT: NOT DETERMINED.

SOLUBILITY IN WATER TEXT: NO.

PH OF PRODUCT AS RECEIVED (NEAT)/TEXT: NOT DETERMINED.

APPEARANCE: AMBER.

ODOR: PETROLEUM/AMMONIA ODOR.

PHYSICAL STATE: LIQ

SECTION 9 - OTHER INFORMATION: WATER REACTIVE: NO.

SECTION 10: STABILITY & REACTIVITY

STABILITY INDICATOR: Y
STABILITY - CONDITIONS TO AVOID: HEAT, SPARKS, OPEN FLAME.

INCOMPATIBLE MATERIALS: STRONG OXIDIZERS LIKE CHLORINE OR CONCENTRATED OXYGEN.

HAZARDOUS DECOMPOSITION PRODUCTS: COMBUSTION MAY PRODUCE SMOKE, CARBON MONOXIDE, OTHER UNDETERMINED OXIDES AND FUMES.

HAZARDOUS POLYMERIZATION INDICATOR: N

HAZARDOUS POLYMERIZATION - CONDITIONS TO AVOID: NONE KNOWN.

SECTION 11: TOXICOLOGICAL INFORMATION

CHRONIC EFFECTS: HEALTH STUDIES HAVE SHOWN THAT MANY CHEMICALS POSE HUMAN HEALTH RISKS WHICH MAY VARY FROM PERSON TO PERSON. STUDIES HAVE LINKED PROLONGED OR REPREATED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS TO PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. ANIMAL STUDIES DONE WITH 2-BUTYOXYETHANOL INDICATE THAT EXPOSURE MAY CAUSE RED BLOOD CELL DAMAGE, AND DAMAGE TO THE KIDNEYS AND LIVER. THESE EFFECTS HAVE NOT BEEN OBSERVED IN HUMANS. INTENTIONAL MISUSE BY DELIBERATE CONCENTRATION AND INHALATION MAY BE HARMFUL OR FATAL. AS A PRECAUTION, EXPOSURE TO LIQUIDS OR VAPORS SHOULD BE MINIMIZED.

CARCINOGENICITY: CARCINOGENIC LISTING: NTP: NO, IARC: NO, ACGIH: NO.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: COMPLY WITH ALL APPLICABLE REGULATIONS.

SECTION 16: OTHER INFORMATION

LOCAL EXHAUST: YES. RATE: >60 FEET PER MINUTE, FACE VELOCITY.

SPECIAL PROTECTION (MECHANICAL): NO.